Signature

dS	box	→	+

PTC/SB/08A (10-96)

Unde	r the Paperwork R	leduction Act of	ــــــــ <u>1995, no pe</u> r	rsons are required to	Patent and Transman	ark Office: U.S. DEPARTMENT OF COMMERCE unless it contains a valid OMB control number.	0 =
(		r form 1449A/P				omplete if Known	<u> </u>
					Application Number	09/337,313	7,2
ì	INFOR	MATIO	N DISC	LOSURE	Filing Date	6/21/99	7:5
	STATE	EMENT I	BY APF	PLICANT	First Named Inventor	M.G.Nair	PE
- 1					Group Art Unit	1651	750
. 1	(us	se as many si	heets as nec	cessary)	Examiner Name	P.Patten	<b>∄%</b> ○
Ţ	Sheet	1	of	3	Attorney Docket Number	MSII 4.1-435	リド

				U.S. PATENT DOCU	MENTS	Claso/Subclass
Examiner	Cite	U.S. Patent		Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevant
nitials*	No.1	Number	(If known)	of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Historial Figures Appear
79		4,439,4	158	Puri	3-27-84	426/330.5
					<del> </del>	
		_				
		ļ		•		<del></del>
		<b> </b>		1	<del>                                     </del>	
		<del> </del>				
		ļ				
		<del> </del>			<b></b>	
	<u> </u>	ļ		<u> </u>		
					1	
					II	

							FOR	EIGN PATENT DO	CUMENT	S						
Examiner	Cite		Fon	eign Pater	t Docum			Name of Pat		Date of			Wh	Columns, Line ere Relevant		
Initials	No.1	Office <sup>3</sup>		Number			d Codes brown)	Applicant of Cite	d Document		Docu DD-Y			ges or Relevan ures Appear	•	T <sup>6</sup>
44		GB	1	589	294			Inverni	Del1	a B∈	ff	a_S	PA_			
ĥ		DE	19	7 20	_76		AL	Felke e	t-all	5/1	3/4	1	age		in	1
										paq		L ,	line			
										bag	e 2	2	line	20.		
					- ·					bag	e_ 2	2	line	24		4
								ي								
							<u>L</u>									
							<u> </u>	<u>L</u>					<u> </u>			
		oxdot	_	$\rightarrow$			<u> </u>						<del> </del>			
	ļ	1	<u></u>					<u> </u>					<del> </del>			
		7		/	4			·					·			
Exami	ner	1-	Z		(/_	1	-01			Date		2/	20/0	i		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Considered

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

(Information Disclosure Statement by Applicant (PTO/SB/08A) (1449A/PTO) [6-2]—page 1 of 1)

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>4</sup> Applicant is to place a check mark here if English language Translation is attached.

Patent and Trai

PTO/SB/088 (10-96)
Use through 10/31/99, OMB 0651-0031
Office: U.S. DEPARTMENT OF COMMERCE
chless it contains a valid OMB control number.

Under the Paperwork Reduction A of 1995, no persons are required to respond to a collection of informa Complete If Known Substitute for form 14498/PTO **Application Number** INFORMATION DISCLOSURE Filing Date First Named Inventor STATEMENT BY APPLICANT Group Art Unit Examiner Name P.Patten (use as many sheets as necessary) **Attorney Docket Number** Sheet of MSU 4.1-435

	-	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		]
xaminer nitials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²	-
PY		Hoult, J.R.S., et al., Agents Actions 42:44-49 (1994)		
R		Wurm, G., et al., Deutsche Apotheker Zeitung 122.Jahrg. Nr. 41 14.10.1982 (English Tran	sl.	atio
PP		DATABASE DISSERTATION ABSTRACTS 'Online! Dialog File 35:1998 Wang, Haibo: "Antioxidant and Anti-		
		Inflammatory Compounds in Tart Cherries (Anthocyanins, Phenolics, Flavonoids, Balaton, Montmorency) retried from		
		DIALOG Database accession no. 01695255 XP002137469 abstract & DISSERTATION, MICHIGAN STATE UNIVERSITY,		
		East Lansing, MI,USA (1998) Avail UMI; Order No. AAD99-22386 (157 pages)		
PP		KIM KEE HEE et al, "Antiinflammatory activity of flavonoids: Mouse ear edema inhibition Archives of Pharmacal Research (Seoul),		
PP		Vol. 16, no. 1, pages 18-24 (1993)  XP000886582 - tables I-V; concluding paragraph of the discussion		
PP		BLASZO G et al: "Anti-inflammatory effects of cherry (Prunus avium L.)stalk extract" PHARMAZIE, Vol. 49, no. 7, pages 540-541		
		(1994) XP000887283; page 540 DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ļ	SERVICE, Columbus, Ohio, US Selenina, L.V. et al: "polyphenols of	_	
R		Potentilla erecta and their biological activity" - retrieved from STN Database accession no. 80:22614  XP002137470 abstract		
		& RAST. RESUR. 9(3), 409-414 (1973)		

Examiner Signature Date Considered 3 2001

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.

Examiner

Signature

of

3

MSU 4.1-435

Complete If Known Substitute for form 1449B/PTO 09/337,313 6/21/99 **Application Number** INFORMATION DISCLOSURE Filing Date STATEMENT BY APPLICANT First Named Inventor M.G.Nair Group Art Unit 1651 (use as many sheets as necessary) **Examiner Name** P.Patten

**Attorney Docket Number** 

		OTHER ROLOR ART. MAN RATCHT I TERATILISE PAGENTATION	
		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Exeminer Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the anticle (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
00		DATABASE CAPLUS 'Online! - CHEMICAL ABSTRACTS	Г
11		SERVICES, COLUMBUS, OHIO, US RAZGA, ZSOLT et al: "Effect of benzo-	L
	-	<pre>pyranone derivatives on dithranol-induced ear edema in mice" retrieved from STN</pre>	
		Database accession no. 110:127910	
		XP002137471 abstract	
		& KISERL. ORVOSTUD. (6) 464-471 (1988)	
PP		LEE SONG JIN ET AL: "Antiinflammatory activity of isoflavonoids from Peuraria Radix and Biochanin A derivatives"	
·		ARCHIVES OF PHARMACAL RESEARCH (SEOUL),	
	$\longrightarrow$	vol. 17, no. 1, pages 31-35 (1994) XP000886583 - tables II, III	
PY		HERNANDEZ-PEREZ M. et al: "Phenolic composition of the mocan (Visnea mocanera)"	
		J. AGRIC. FOOD CHEM. Vol. 44, no. 11, pages 3512-3515 (1996)	
		XP000632164 - abstract	
<b>Λ</b>	1	DE 197 20 767 A (Protekum Unweltinstitut GMBH	
<u>\</u> .		0) 12 NOVEMBER 1998)	_
		column 4, line 30; examples 1-10	
(S)		Sigma-Aldrich-AMBERLITE XAD-2, 500G specification	ns
PR		CHANDRA, A., et al., J. of Agricultural & Food Chemistry 41 July, No. 7, Wash. D.C. US (1993)	

<sup>&</sup>quot;EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date

Considered

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

(Information Disclosure Statement by Applicant (PTO/SB/08B) Other Prior Art—NonPatent Literature Documents (1449A/PTO) [6-2.1]—page 1 of 1)

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Please i	/pe a	plus	sign	(+)	inside	this	box	→		
----------	-------	------	------	-----	--------	------	-----	---	--	--

PTO/SB/08A (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 4

С	omplete if Known
Application Number	07/761,143
Filing Date	1/16/01
First Named Inventor	M.G. Nair
Group Art Unit	1651
Examiner Name	PATTEN
Attorney Docket Number	MSU 4.1-435

09/761143

				U.S. PATENT DOCU	MAE	ATTE CLASS	SubClass
l		II C Datas	t Document	U.S. PATENT DOCK			Pages, Columns, Lines,
Examiner			Kind Code <sup>2</sup>	Name of Patentee or Applicant	C	Date of Publication of Cited Document	Where Relevant
Initials"	No.1	Number	(N known)	of Cited Document		MM-DD-YYYY	Pessages or Relevant Figures Appear
W	AA	5,266.	685	Garbutt	$\neg$	530	370
1	AB	5,665,	783	Katzakian et	<b>a</b> ].	521	24
	AC	5.817.	354	Mozaffar		426	271
P	AD	4.297.	220	Meitzner		210	690
				3			
					4		
					_		
<b></b>		<u> </u>		<u> </u>			
ļ					-		
<u> </u>					-		
					_		
				<u> </u>	_		
1	ļ				-		
<b></b>					-		
				<del> </del>	$\rightarrow$		
							<u> </u>

				FORE	GN PATENT DOCUMENTS	S		
Examiner	Cite	Foreign Patent Document			Name of Patentee or	Date of Publication of	Pages, Columns, Lines, Where Relevant	Т
Initials	No.1	Office <sup>3</sup>	Number <sup>4</sup>	(# known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T
		<del>                                     </del>	·		<del></del>	<u> </u>		↓_
				<del></del>		-		4_
		<del>  </del>		<del></del>		<del> </del>	<del> </del>	+
	-					† .		+
								1-
						<u> </u>		

Examiner Signature	Latue	in Stalle	Date Considered	3/21/01
		ac in the same	00.10.00.00	

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

(Information Disclosure Statement by Applicant (PTO/SB/08A) (1449A/PTO) [6-2]—page 1 of 1)

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>8</sup> Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box -> +
--

Picase type a plus sign (+) Inside this box -> + Approved for use through 1031/99. OMB 6651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitut	e for form 14498/	PTO		Complete If Known		
Substitute for form 14498/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)  Sheet 2 of 4		Application Number	09/761,143			
INFO	PRMATIC	)n dis	CLOSURE	Filing Date	1/1901	
STA	TEMENT	RY A	PPI ICANT	First Named Inventor	M.G.Nair	
			ii i LioAiii	Group Art Unit	1651	
	(use as mar	ny sheets a	s necessary)	Examiner Name	PATTEN	
Sheet	2 ·	of	4	Attorney Docket Number	MSU 4.1-435	

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ2
PP	A 1	Kinsella, et al., Food Tech. 85-89 (1993)	
9	A 2	Tsuda, T., et al., J. Agric. Food Chem. 42: 2407-2410 (1994)	
	A 3	Li, K. C., et al., J. Am. Chem. Soc. 78:979-980 (1956)	
	A 4	Harborne, J.B., et al., Phytochemistry 3:453-463 (1964)	
	A5	Dekazos, E.D., J. Food Sci. 35:237-241 (1970)	
	A6	Chandra, A., et al., J. Agric. Food Chem. 40:967-969 (1992)	
	Α7	Shrikhande, A.J. and F.J. Francis, J. Food Sci. 38:649-651 (1973)	
	A8	Chandra, A., et al., J. Agric. Food Chem. 41: 1062-1065 (1993)	
	Α9	Bayer, T., et al., Phytochemistry 28:2373-2378 (1989)	
	A 10	Goda, Y., et al., Chem. Pharm. Bull. 40:2452-249 (1992)	57
88	A 11	Humes, J. L., et al., Proc. Natl. Acad. Sci. U.S.A. 78:2053-2056 (1981)	
			<u> </u>

Examiner Signature	Jahrena A Jothe	Date Considered 3/21/01

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.

PTC/SB/08B (10-96)

Approved for use through 10/31/99, OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitut	te for form 14498	/PTO		Complete If Known			
				Application Number	09/761:143		
INFO	DRMATIC	ON DI	SCLOSURE	Filing Date	1/16/01		
STA	TEMENT	r RY	APPLICANT	First Named Inventor	M.G. Nair		
0.7			ar Liozari.	Group Art Unit	1651		
	(use as ma	ny sheets	as necessary)	Examiner Name	PATTER		
Sheet	3	of	4	Attorney Docket Number	MSU 4.1-435		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the litern (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
g,	A 12	Rome, L. H., et al., Proc. Natl. Acad. Sci. U.S.A. 72:4863-4865 (1975)	
66	A 13	Hemler, M., et al., J. Biol. Chem. 25:251-5575- 5579 (1976)	
66	Cite   No.   Include name of the author (in CAPITAL LETTERS), title of the atticle (when appropriate), title of the atticle (moch, magazine, journal, serial, symposium, cutalog, etc.), date, page(s), volume-issue number(s), publisher, disabled.		
QQ			
1	1 1		
	1 1		
	1 I		
	) I	Wang, H., et al., J. Agric. Food Chem. 45: 2556-2560 (1997)	
P		Arora, A. and G.M. Strasburg, J. Amer. Oil Chem Soc. 74:1031-1040 (1997)	-
PR	I I		
B	A 22	Dewitt, D.L., et al., J. Biol. Chem. 265 5192-5198 (1990)	
			<u> </u>

Evaminer Date					
Signature Tables Fath Considered 3/21/01	Examiner Signature	Jahrena Dath	Date Considered	3/21/01	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

<sup>1</sup> Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box	→	+
---	---	---

PTC/SB/068 (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitu	te for form 1449B	/PTO		Co	mplete If Known	
INICO	DIA A TIZ	N DIO	01.001155	Application Number	09/76/143	
			CLOSURE	Filing Date	1/16/01	
STATEMENT BY APPLICANT			PLICANT	First Named Inventor	M.G.Nair	
				Group Art Unit	1651	
	(use as many sheets as necessary)			Examiner Name	PATTEN	
Sheet	4	of	4	Attorney Docket Number	MSU 4.1-435	

	,	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	_
xaminer nitials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
PP	A 23	Moroney, M.A., et al., J. Pharm. Pharmacol. 40 787-792 (1988)	
9	A 24	Wang et al., J. Nat. Products 62:294-296 (1999)	
	A 25	Wang et al., J. of Ag. and Food Chemistry, 47:840-844 (1999)	-
PP	A 26	Wang et al., J. of Nat. Products 62:86-88 (1999)	
			-
			_
	1		_
	$\angle^x$		_

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Considered

Signature

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

(Information Disclosure Statement by Applicant (PTO/SB/08B) Other Prior Art—NonPatent Literature Documents (1449A/PTO) [6-2.1]—page 1 of 1)

<sup>1</sup> Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.